PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: DAVID S. RESNICK	PCT
NIXON PEABODY LLP 100 SUMMER STREET BOSTON. MA 02110	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY. OR THE DECLARATION
	(PCT Rule 44.1)
	Date of mailing (daymonth/year) 26 SEP 2006
Applicant's or agent's file reference 033393-55221	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US04/36200	International filing date (day/month/year) 01 November 2004 (01.11.2004)
Applicant THA CBR INSTITUTE FOR BIOMEDICAL RESEARCH. INC.	
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	ims of the international application (see Rule 46):
	normally two months from the date of transmittal of the international
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:	
For more detailed instructions, see the notes on the ac-	companying sheet.
The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the search article 17(2)(a).	h report will be established and that the declaration under e International Searching Authority are transmitted herewith.
3. With regard to the protest against payment of (an) additi	ional fee(s) under Rule 40.2, the applicant is notified that:
the protest together with the decision thereon has been request to forward the texts of both the protest and the	n transmitted to the International Bureau together with the applicant's e decision thereon to the designated Offices.
no decision has been made yet on the protest; the appl	
Hureau If the applicant wishes to avoid or postpone publication	the international application will be published by the International a notice of withdrawal of the international application, or of the Rules 90bis.1 and 90bis.3, respectively, before the completion of the
International Bureau. The International Bureau will send a copy preliminary examination report has been or is to be established. I before the expiration of 30 months from the priority date.	he written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international These comments would also be made available to the public but not
examination must be filed if the applicant wishes to postpone the	f some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date n 20 months from the priority date, perform the prescribed acts for
In respect of other designated Offices, the time limit of 30 months	
See the Annex to Form PCT/IB/301 and, for details about the application Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,
Name and mailing address of the ISA/ US	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Sean R. McGarry
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703/398-0196
Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 033393-55221		Form PCT/ISA/220 ere applicable, i.em 5 below
International application No. PCT/US04/36200	International filing date (daymonthyear) 01 November 2004 (01.11.2004)	(Earliest) Priority Date (daymonth year 30 October 2003 (30.10.2003)
Applicant THA CBR INSTITUTE FOR BIOMEDICA This international search report has been according to Article 18. A copy is being	prepared by this International Searching Au	nthority and is transmitted to the applica
This international search report consists of the latest accompanied	f a total of sheets. by a copy of each prior art document cited	in this report.
the international a a translation of the of a translation fun b. With regard to any nucleotid Certain claims were found a Unity of invention is lacking With regard to the title, the text is approved as submit	•	td, which is the language th (Rules 12.3(a) and 23.1(b))
5. With regard to the abstract, the text is approved as submitted that text has been established, a may, within one month from the	ted by the applicant. according to Rule 38.2(b), by this Authority a the date of mailing of this international search	is it appears in Box No. IV. The applicar report, submit comments to this Authorit
6. With regard to the drawings, a. the figure of the drawings to be put as suggested by the appropriate as selected by this Au	blished with the abstract is Figure No oplicant. thority, because the applicant failed to suggest thority, because this figure better characterize	st a figure.

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL	SEARCH	REPORT
IN I DAMALIONAL	SUMMULI	MLI OMI

r	t	ern	at	io	nal	application	No

PCT/US04/36200

		1			
A. CLAS	SSIFICATION OF SUBJECT MATTER A61K 31/70(2006.01):C07H 21/04(2006.01).21/ C12Q 1/68(2006.01)	02(2006.01):C12N 5/00(2006.01)			
USPC: According to	435/6.375.377:514/44:536/24.1.24.5 International Patent Classification (IPC) or to both na	ational classification and IPC			
	-				
	DS SEARCHED				
Minimum do U.S. : 43	cumentation searched (classification system followed 15/6, 375, 377; 514/44: 536/24.1. 24.5	by classification symbols)			
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched		
Electronic da WEST, CAPI	ta base consulted during the international search (namely, MEDLINE, BIOSIS, BIOTECHNO	e of data base and, where practicable, searc	h terms used)		
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category. *	Citation of document, with indication, where		Relevant to claim No.		
T	US 2005/0119212 A1 (HAEBERLI et al) 02 June 20	005 (02.06.2005), see entire document.	1-25		
P,X	HAMAR et al., Small Interfereing RNA Targeting F	us Protects Mice Against Renal Ischemia-	1-19, 21, 22		
 P.Y	Reperfusion Injury, PNAS, 12 October 2004, Vol. 1 entire document.	20, 23-25			
x	WANG et al., Fas siRNA Reduces Apoptotic Cell D	eath of Allogeneic Transplanted	l, 6-13		
 Y	Hepatocytes in Mouse Spleen, Transplantation Proceedings, 2003, Vol. 35, pages 1594-1595,				
i		•			
Further	documents are listed in the continuation of Box C.	See patent family annex.			
	occial categories of cited documents:	"I" later document published after the inter			
"A" document	defining the general state of the art which is not considered to be of	date and not in conflict with the application principle or theory underlying the investigation.			
"E" cartier app	resevance dication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	laimed invention cannot be ed to involve an inventive step		
"L" document establish the specified)	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive such combined with one or more other such	when the document is		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the			
priority da	published prior to the international filing date but later than the se claimed	"&" document member of the same patent f			
Date of the ac	tual completion of the international search	Date of mailing of the international search	h report		
16 August 200	16 August 2006 (16.08.2006) 26 SEP ZUUD				
Name and man	iling address of the ISA/US Stop PCT, Aun: ISA/US	Authorized officer	16th /2		
Com	missioner for Patents	Sean R. McGarry	4		
Alex	Box 1450 andria, Virginia 22313-1450	Telephone No. 703 308-0196	,		
Facsimile No.	(571) 273-3201	<u> </u>			

Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	ORITY				
To: DAVID S. RESNICK NIXON PEABODY LLP		PCT			
100 SUMMER STREET BOSTON. MA 02110		WRITTEN OPINION OF THE TIONAL SEARCHING AUTHORITY			
		(PCT Rule 43bis.1)			
	Date of mailing (daymonthyee	26 3EP ZUUU			
Applicant's or agent's file reference	FOR FURTH	ER ACTION See paragraph 2 below			
033393-55221					
International application No.	International filing date (day/month/year)				
PCT/US04/36200	01 November 2004 (01.11.2004)	30 October 2003 (30.10.2003)			
International Patent Classification (IPC)	or both national classification and IPC				
IPC: Please See Continuation Sheet USPC: 435/6,375,377:514/44;536/24.1	.24.5				
Applicant					
THA CBR INSTITUTE FOR BIOMEDI	CAL RESEARCH, INC.				
1. This opinion contains indications rela	nting to the following items:				
Box No. I Basis of the	opinion				
Box No. II Priority					
Box No. III Non-establic	chment of opinion with regard to novelty, in	ventive step and industrial applicability			
Box No. IV Lack of unit	Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doct					
Box No. VII Certain defe	Box No. VII Certain defects in the international application				
Box No. VIII Certain observations on the international application					
International Preliminary Examining Authority other than this one to be the	Authority ("IPEA") except that this do	ill be considered to be a written opinion of the less not apply where the applicant chooses and the International Burcau under Rule 66.1bis(b) idered.			
IPFA a written reply together, where	appropriate, with amendments, before the epiration of 22 months from the priority dat	IPEA, the applicant is invited to submit to the expiration of 3 months from the date of mailing e, whichever expires later.			
3. For further details, see notes to Form I	PCT/ISA/220.				
Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	16 August 2006 (16.08.2006)	Sean R. McGarry			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Télephone No. 703 398-0196				
Facsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April 200	<u> </u>	<u> </u>			

6

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/36200

Box N	o. I Basis of this opinion
). With	regard to the language, this opinion has been established on the basis of:
\boxtimes	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With a invent	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
	Turnished subsequency to the Additivity for the purposes of Season
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additio	onal comments:
	·
orm PCT/	ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US04/36200	

p.14

Box No. V Reasoned statement under Rule 43 bis. l(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 2-5, 14-25	YES		
• • •	Claims <u>1. 6-13</u>	NO		
Inventive step (IS)	Claims NONE	YES		
	Claims 1-25	NO		
Industrial applicability (IA)	Claims 1-25	YE\$		
22	Claims NONE	NO		

2. Citations and explanations:

Claims I. and 6-13 lack novelty under PCT Article 33(2) as being anticipated by WANG et al. (Transplantation Proceedings, Vol. 35:

1594-1595, 2003).

Wang et al. Have disclosed the inhibition of apoptosis in lever cells via the administration of siRNA that comprise the insunt SEQ ID NO: 13 to cells that were transfected into the spleen of mice. The siRNA are designed to inhibit Fas expression.

Claims 2-5 and 14-25 lack an inventive step under PCT Article 33(3) as being obvious over Wang et al. Wang et al have taught that the inhibition of Fas via siRNA inhibits apoptosis. It would have been obvious to one in the art to use siRNA targeting Fas to inhibit apoptotic conditions. One would have seen it obvious to treat any condition associated with Fas expression via an siRNA targeted thereto since the art has shown the siRNA inhibition of Fas in mice.

Form PCT/ISA/237 (Box No. V) (April 2005)

WRITTEN OPINION OF THE	
INTERNATIONAL SEARCHING AUTHORITY	Ċ

International application No. PCT/US04/36200

Continuation of IPC: A61K 31/70(2006.01);C07H 21/04(2006.01),21/02(2006.01);C12N 5/00(2006.01) C12Q 1/68(2006.01)					
					· :
	·				
			;		
		. ·			
	٠.	· *			

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
GRAY SCALE DOCUMENTS
☐ LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.